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**EXAMINER**  
KARLSEN, E

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SAN DIEGO, CA 92131

B2M1/0707

ART UNIT	PAPER NUMBER
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2213

**DATE MAILED:** 07/07/95

**This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS**

☐ This application has been examined ☒ Responsive to communication filed on 4-10-93 ☒ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), — days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

**Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:**

1. ☒ Notice of References Cited by Examiner, PTO-892. 2. ☐ Notice of Draftsman's Patent Drawing Review, PTO-948.  
3. ☐ Notice of Art Cited by Applicant, PTO-1449. 4. ☐ Notice of Informal Patent Application, PTO-152.  
5. ☐ Information on How to Effect Drawing Changes, PTO-1474. 6. ☐ \_\_\_\_\_.

## Part II SUMMARY OF ACTION

1. ☒ Claims 44-49, 51-56, 71-77 are pending in the application.
- Of the above, claims 45, ~~46~~ 51-56, 71 are withdrawn from consideration.
2. ☒ Claims 1-43, 50, 57-70 have been cancelled.
3. ☐ Claims \_\_\_\_\_ are allowed.
4. ☒ Claims 44, 46-49 and 72-77 are rejected.
5. ☐ Claims \_\_\_\_\_ are objected to.
6. ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.
13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other \_\_\_\_\_

### EXAMINER'S ACTION

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1. Claims 45, 51-56 and 71 are withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention and/or species, the requirement having been traversed in Paper No. 10.
2. Claims 72-77 were requested to be rejoined with the Group I claims on the basis of admission by Applicants that the claims of Group IV are not patentably distinct from those of Group I. Groups I and IV are rejoined.
3. Claims 44, 46-49 and 72-77 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what the contact is, it is not clear what the bump is and it is not clear what the raised portion is. Does the contact consist of a bump and a raised portion or is the bump and the contact the same thing? Is the raised portion part of the bump? Maybe the raised portion is an extension of the bump. Does the bump have a planar surface on which the conductive material is placed? Is the contact a bump with a pointed top?

It appears that Applicants' contact is a mass of material with a particular geometry. It also appears that Applicants are claiming the mass in two parts wherein the division between the two parts is not clear. If a uniform rod is stood on end the bottom half can be a bump and the top half can be a raised

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portion. Any tetrahedron set on one of its surfaces would have a bottom portion which is a bump and a top portion which is a raised portion. If a point of a tetrahedron which might be called a raised portion were forced into a pad any part of the side of the tetrahedron could be said to limit penetration.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

5. (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claims 44, 46-49 and 72-77 are rejected under 35 U.S.C.

§ 102(e) as being fully anticipated by any one of Littlebury et al., Liu et al., Chang et al., Reid et al., Carver, Okino et al., Malhi et al., Widder et al. or Leedy '035. With regard to Applicants' arguments against Littlebury et al. as a reference it is noted that if sufficient pressure were applied element 17 could be made to pierce and element 16 abut. With more pressure 17 and 16 would pierce and element 14 would abut, etc. An angularly shaped probe as in Liu et al. or Reid et al. would pierce and abut in an infinite number of positions. The angular probe would have an abutting component at each and every position, that is, the surface of that being pierced would resist piercing. It is further noted that element 2 of Reid et al. has

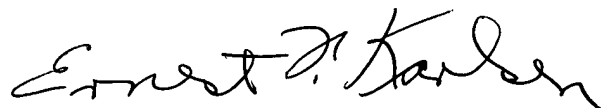
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a flat portion that would impede piercing. Okino et al. and Malhi et al. have portions which are curved in shape that would resist piercing.

7. Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

E. Karlsen:lsd  
July 6, 1995



ERNEST F. KARLSEN  
PRIMARY EXAMINER  
GROUP 2200